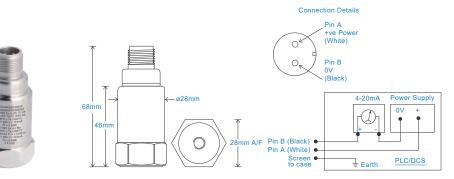
HS-420I/M Intrinsically Safe Accelerometer 4-20mA velocity output via 2 Pin MS Connector

Key Features

- · Intrinsically Safe with European, USA,
- Australian, South African, and Indian approvals
- Approved SIL 2 and SIL 3
- For use with PLC/DCS systems
- Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



Technical Performance

Mounted Base Resona	ince	5kHz min		
Velocity Ranges		see: 'How To Order' table ±10%		
		Nominal 80Hz at 22°C		
Frequency Response	10Hz (600cpm) to	1kHz (60kcpm) ± 5% - ISO10816		
Isolation		Base isolated		
Range		50g peak		
Transverse Sensitivity		Less than 5%		

Case Material	Stainless Steel		
Sensing Element/Construction	PZT/Compression		
Mounting Torque	8Nm		
Weight	150gms (nominal)		
Screened Cable Asssembly	see: www.hansfordsensors.com for options		
Connector	HS-AA004 - non-booted		
	HS-AA053 or HS-AA054 - booted		
Mounting Threads	see: 'How To Order' table		

Electrical

Current Output 4-20mA DC proportional to Velocity Range Supply Voltage 15-30 Volts DC (for 4-20mA) Settling Time 2 seconds Output Impedance Loop Resistance 600 Ohms max. at 24 Volts Case Isolation >108 Ohms at 500 Volts

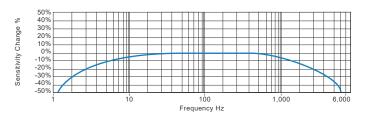
Environmental

Mechanical

Operating Temperature Range Sealing Maximum Shock EMC

see: attached certification details IP68 5000g EN61326-1:2013

Typical Frequency Response



Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



Certifications













CE

UK CA

This product is certified in accordance with UL 913, 8th Ed. Rev. December 6, 2013 CAN/CSA C22.2 No. 157-92 (R2012) +Upd1 +Upd2



T: 150 210 98804 www.hansfordsensors.com.cn 汉施弗德传感器(上海)有限公司

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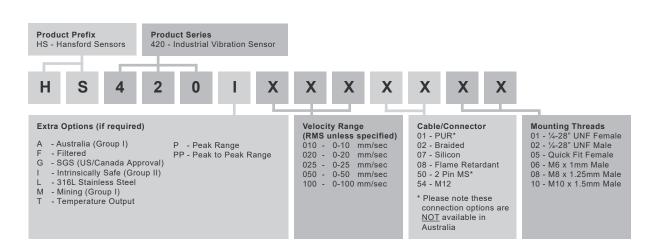
	Intrinsically Safe Requirements						
	Maximum Cable Length	See website: www.hansfordsensors.com	US/Canada Approvals	Certificate No. SGSNA/18/SUW/0000231			
		see attached system drawings	Class I, II, III, Divi	ision 1, 2, Groups A - G, T4, -40°C to +110°C,			
		, ,	Class I, Zone 0, AEx, ia, IIC, T4, Ga, -40°C to +110°C				
Certificate details: Group I + II		IECEx BAS08.0034X		x, ia, IIIC, T130°C, IP65, Da, -40°C to +110°C			
		Baseefa08ATEX0086X	,				
		⊛II 1GD	Barrier	1 x Pepperl + Fuchs Galvanic Isolator			
		Ex ia IIC T6 Ga		KFD2-STC4-Ex1, which has superseded			
		Ex ia IIIC T80°C IP65 Da		KFD2-CR-Ex1.30300 (BAS00ATEX7164)			
		🐵 l M1		see attached system drawings			
		Ex ia I Ma					
		(-40°C ≤ Ta ≤ +60°C)	1 x MTI	L Zener Barrier MTL7787+ (BAS01ATEX7217)			
Certificate details: Group II		©II 1GD	or Pepperl + Fuchs Zener Barrier				
		Ex ia IIC T4 Ga	Z78	37 (BAS01ATEX7005) or any other barrier that			
Ex ia IIIC T130°C IP65 Da		Ex ia IIIC T130°C IP65 Da	conforms to system drawings attached				
		(-40°C ≤ Ta ≤ +110°C)					
			System Connections for Zene	er Barrier see attached system drawings			
Accelerometer System Certificate		Baseefa08Y0087					
		Ex ia IIC T6 (-40°C ≤ Ta ≤ +60°C)	System Connections for Galv	anic Isolator see attached system drawings			
		*On request - consult Sales Office					
			Terminal Parameters	Ui = Vmax = 28V			
	Terminal Parameters Ui	i = 28V, li = 115mA, Pi = 0.65W Group II		li = Imax = 115mA			
		Ui = 16.5V Pi = 0.65W		Pi = 0.65W			
	or	· Ui = 28V li = 115mA Pi = 0.65W Group I					
				pecial conditions of safe use for Group II dust.			
500V Isolation Units Will Pass A 500V Isolation Test		1	The free end of the cable on the integral cable				
		V	rersion of the apparatus must be terminated in				
Certified Temperature Range Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +60°C) (Gas)		а	n appropriately certified dust-proof enclosure.				
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +110°C) (Gas) Ex ia IIIC T80°C IP65 Da (-40°C ≤ Ta ≤ +60°C) (Dust) Ex ia IIIC T130°C IP65 Da (-40°C ≤ Ta ≤ +110°C) (Dust)			The unit has no serviceable parts.				
		Ex ia I Ma ($-40^{\circ}C \le Ta \le +60^{\circ}C$) (Mining)					

Australia Approval Group 1 IECEx ITA 10.0003X Ex ia I Ma $(-40^{\circ}C \le Ta \le +60^{\circ}C)$

South African Approval

Certificate No. MASC MS/16-0229X Group I and II (As Baseefa/ATEX)

How To Order





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